

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 27 MAR 2006

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Applicant's or agent's file reference <b>08381-038</b>	<div style="display: flex; justify-content: space-between;"> <span><b>FOR FURTHER ACTION</b></span> <span>See Form PCT/IPEA/416</span> </div>																	
International application No. <b>PCT/CA2004/002061</b>	International filing date ( <i>day/month/year</i> ) 30 November 2004 (30-11-2004)	Priority date ( <i>day/month/year</i> ) 02 December 2003 (02-12-2003)																
International Patent Classification (IPC) or national classification and IPC IPC: <i>G09F 9/30</i> (2006.01) , <i>G09F 21/02</i> (2006.01) , <i>G06F 3/14</i> (2006.01)																		
Applicant <b>PIXMAN CORPORATION ET AL</b>																		
<ol style="list-style-type: none"> <li>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> <li>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</li> <li>3. This report is also accompanied by ANNEXES, comprising:               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>1</u> sheets, as follows:                   <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).   <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. 1 and the Supplemental Box.                 </div> </li> <li>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s))  <div style="margin-left: 20px;"> , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).                 </div> </li> </ol> </li> <li>4. This report contains indications relating to the following items:               <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/> Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/> Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/> Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/> Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/> Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/> Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/> Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input checked="" type="checkbox"/> Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> </li> </ol>			<input checked="" type="checkbox"/> Box No. I	Basis of the report	<input type="checkbox"/> Box No. II	Priority	<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/> Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/> Box No. VI	Certain documents cited	<input type="checkbox"/> Box No. VII	Certain defects in the international application	<input checked="" type="checkbox"/> Box No. VIII	Certain observations on the international application
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Date of submission of the demand 23 June 2005 (23-06-2005)	Date of completion of this report 21 March 2006 (21-03-2006)																	
Name and mailing address of the IPEA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476	Authorized officer  <div style="text-align: right;">Julien Daigle (819) 934-4273</div>																	

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/CA2004/002061

## Box No. I Basis of the report

1. With regard to the language, this report is based on:
  - ☒ the international application in the language in which it was filed
  - ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
    - ☐ international search (Rules 12.3(a) and 23.1(b))
    - ☐ publication of the international application (Rule 12.4(a))
    - ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
  - ☐ the international application as originally filed/furnished
  - ☒ the description:
    - ☒ pages 1-11 as originally filed/furnished
    - ☐ pages\* received by this Authority on \_\_\_\_\_
    - ☐ pages\* received by this Authority on \_\_\_\_\_
  - ☒ the claims:
    - ☐ pages as originally filed/furnished
    - ☒ pages\* 12-17 as amended (together with any statement) under Article 19
    - ☐ pages\* received by this Authority on \_\_\_\_\_
    - ☐ pages\* received by this Authority on \_\_\_\_\_
  - ☒ the drawings:
    - ☒ pages 1-10 as originally filed/furnished
    - ☐ pages\* received by this Authority on \_\_\_\_\_
    - ☐ pages\* received by this Authority on \_\_\_\_\_
  - ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
  - ☐ the description, pages \_\_\_\_\_
  - ☐ the claims, Nos. \_\_\_\_\_
  - ☐ the drawings, sheets/figs \_\_\_\_\_
  - ☐ the sequence listing (*specify*): \_\_\_\_\_
  - ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
  - ☐ the description, pages \_\_\_\_\_
  - ☐ the claims, Nos. \_\_\_\_\_
  - ☐ the drawings, sheets/figs \_\_\_\_\_
  - ☐ the sequence listing (*specify*): \_\_\_\_\_
  - ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/CA2004/002061

## Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	<u>2, 4, 5, 7-38</u>	YES
	Claims	<u>1, 3, 6, 39</u>	NO
Inventive step (IS)	Claims	<u>36-38</u>	YES
	Claims	<u>1-35, 39</u>	NO
Industrial applicability (IA)	Claims	<u>1-39</u>	YES
	Claims	<u>none</u>	NO

### 2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: WO 00 03377 A1 (STIJELJA) 20-January-2000 (20-01-2000)  
D2: WO 02 45467 A2 (COLOR KINETICS INCORPORATED) 06-June-2002 (06-06-2002)

In view of Document D1 claims 1, 3, 6 and 39 do not meet the requirements of Article 33(2) of the PCT. Document D1 discloses a display system comprising a transport means for transporting a display device, a media generating means and a power supply. Said transport means comprises a support frame and a plurality of fastening means. Said transport means includes a support member with first and second ends wherein said display device is mounted to said second end of said support member. A command means is supplied wherein the display message displayed by said display device can be modified either by a human operator of said display system or another user. Claim 39 is merely directed to the method of using such a display system. Therefore, all elements of claims 1, 3, 6 and 39 can be found in D1.

Claims 2, 4, 5 and 7-38 do meet the requirements of Article 33(2) of the PCT.

As claims 1, 3, 6 and 39 do not meet the requirements of PCT Article 33(2), neither do they meet the requirements of PCT Article 33(3).

In view of documents D1 and D2 claims 2, 4, 5 and 7-35 do not meet the requirements of Article 33(3) of the PCT.

Document D2 relates to an intelligent display system which can change output signal conditions based on received data. This system can be applied to computers, game consoles, DVD players, cellular phones and other devices. It is used to illustrate that the combination of additional elements found in claims 2, 4, 5 and 7-35 are well known in the art and thus do not involve an inventive step. Therefore all elements of claims 2, 4, 5 and 7-35 can be found in D1, in view of D2.

Claims 36-38 do meet the requirements of Article 33(3) of the PCT. The prior art, does not teach alone or in combination a display system comprising a transport means for transporting a display device, a media generating means, and a power supply, wherein said transport means comprises a support frame, a plurality of fastening means and a support member with first and second ends wherein said display device is mounted to said second end of said support member, wherein said display system further comprises a command means wherein the display message displayed by said display device can be modified either by a human operator of said display system or another user, wherein said support member can be used by a human operator to carry said display device or to support said display device on the ground.

Claims 1-39 do meet the requirements of Article 33(4) of the PCT.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.  
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**Box No. VIII      Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

General statements in the description which imply that the extent of protection may be expanded in some vague and not precisely defined way, as found on page 11, lines 23-26, do not comply with Article 6.

Figures 9-11 do not comply with Rules 11.13(a)(e)(f).

Figure 12 does not comply with Rules 11.13(a)(e)(f)(h).

end.

4) A portable display system as claimed in claim 2, further characterized in that said transport means further comprises:

- 5           a. an elongated support member having first end and second end, said second end being fixedly attached to said base support means;
- b. mounting means for attaching said display device to said elongated member first end.

10          5) A portable display system as claimed in claim 1, 3 or 4, wherein said display device is a liquid crystal display (LCD) screen.

6) A portable display system as claimed in claim 1, wherein said media generating means comprises media processing means.

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7) A portable display system as claimed in claim 6, wherein said media generating means further comprises a digital media player.

8) A portable display system as claimed in claim 1, wherein said media generating means comprises:

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- a. a digital media player;
- b. media processing means.

9) A portable display system as claimed in claim 7 or 8, wherein said digital media player is a digital versatile disk (DVD) player.

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10) A portable display system as claimed in claim 6 or 8, wherein said media processing means is a game console.

11) A portable display system as claimed in claim 6 or 8, wherein said media processing means is a portable computer.

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12) A portable display system as claimed in claim 10, wherein said command means is a game pad connected with wires or wirelessly to said game console.

5 13) A portable display system as claimed in claim 11, wherein said command means is a game pad connected with wires or wirelessly to said portable computer.

14) A portable display system as claimed in claim 10, wherein said command means is a joystick connected with wires or wirelessly to said game console.

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15) A portable display system as claimed in claim 11, wherein said command means is a joystick connected with wires or wirelessly to said portable computer.

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16) A portable display system as claimed in claim 10, wherein said command means is a remote control wirelessly connected to said game console.

17) A portable display system as claimed in claim 11, wherein said command means is a remote control wirelessly connected to said portable computer.

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18) A portable display system as claimed in claim 11, wherein said command means is a gyroscopic mouse connected with wires or wirelessly to said portable computer.

19) A portable display system as claimed in claim 11, wherein said command means is a keyboard connected with wires or wirelessly to said portable computer.

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20) A portable display system as claimed in claim 11, wherein said command means is a touchscreen connected with wires or wirelessly to said portable computer.

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21) A portable display system as claimed in claim 10, further comprising wireless communication means connecting said game console to a computer network.

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22) A portable display system as claimed in claim 11, further comprising wireless communication means connecting said portable computer to a computer network.

5 23) A portable display system as claimed in claim 21, wherein said wireless communication means is a Radio-Frequency (RF) communication system.

24) A portable display system as claimed in claim 21, wherein said wireless communication means is a cellular communication system.

10 25) A portable display system as claimed in claim 21, wherein said wireless communication means is a Wi-Fi communication system.

26) A portable display system as claimed in claim 22, wherein said wireless communication means is a Radio-Frequency (RF) communication system.

15 27) A portable display system as claimed in claim 22, wherein said wireless communication means is a cellular communication system.

20 28) A portable display system as claimed in claim 22, wherein said wireless communication means is a Wi-Fi communication system.

29) A portable display system as claimed in claim 1 or 2, wherein said portable display system further comprises a sound generating means connected to said media generating means.

25 30) A portable display system as claimed in claim 29, further comprising speakers connected to said sound generating means.

31) A portable display system as claimed in claim 30, wherein said speakers are attached to said support frame.

30 32) A portable display system as claimed in claim 30, wherein said speakers are attached to

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said base support means.

5 33) A portable display system as claimed in claim 1, further comprising short message service (SMS) and multimedia message service (MMS) interface means connected to said media generating means.

34) A portable display system as claimed in claim 2, wherein said carrying sack is a shell made of rigid material.

10 35) A portable display system as claimed in claim 34, wherein said rigid material is a hard plastic.

36) A portable display system as claimed in claim 1, further comprising:

- 15 a. an telescopic pole having first end and second end;  
b. mounting means for attaching said display device to said telescopic pole first end; wherein said telescopic pole can be used by said human operator to carry said display device or to support said display device on the ground.

37) A portable display system as claimed in claim 2, further comprising:

- 20 a. an telescopic pole having first end and second end;  
b. mounting means for attaching said display device to said telescopic pole first end; wherein said telescopic pole can be used by said human operator to carry said display device or to support said display device on the ground.

25 38) A portable display system as claimed in claim 36 or 37, wherein said display device is a projector.

39) A method for using the portable display system as described in claim 1, said method comprising the step of:

- 30 a. attaching said frame support to said human operator using said fastening means;  
b. said human operator wearing said portable display system;



- c. said human operator walking to an audience, said audience comprising a plurality of potentials users;
- d. said human operator handing said command means to one of said users;
- e. said user sending an input message to said media generating means using said command means;
- f. said media generating means generating an output message to said display device according to said input message sent by said user using said command means;
- g. said display device displaying said output message.

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**Abstract**

The invention relates to portable interactive display system, which may be used with for instance advertising using multimedia presentations. The device of the invention may be configured to be  
5 mounted on a human body and carried from place to place while displaying a video image and playing an audio track. The interactive display system transforms an audience that is normally passive into an active audience such that users are offered to use the interactive display system to play video games or use software applications, wherever the display system may be.

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